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PATENT & TRADEMARK OFFICE

1637

PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032

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# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)  
180.00

## Complete if Known

Application Number 09/674,090  
Filing Date March 1, 2001  
First Named Inventor Yoav Eichen  
Examiner Name J. Siew  
Group Art Unit 1637  
Attorney Docket No. I8363.0002/P002

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## METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account

Deposit Account Number

04-1073

Deposit Account Name

Dickstein Shapiro Morin & Oshinsky LLP

The Commissioner is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments  
☐ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee

to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
		1001	750	2001	375	Utility filing fee	
		1002	330	2002	165	Design filing fee	
		1003	520	2003	260	Plant filing fee	
		1004	750	2004	375	Reissue filing fee	
		1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)							0.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims  \*\* =  x  =   
Independent Claims  \*\* =  x  =   
Multiple Dependent  =

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
		1202	18	2202	9	Claims in excess of 20	
		1201	84	2201	42	Independent claims in excess of 3	
		1203	280	2203	140	Multiple dependent claim, if not paid	
		1204	84	2204	42	** Reissue independent claims over original patent	
		1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)							0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
		1051	130	2051	65	Surcharge - late filing fee or oath	
		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
		1053	130	1053	130	Non-English specification	
		1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
		1251	110	2251	55	Extension for reply within first month	
		1252	410	2252	205	Extension for reply within second month	
		1253	930	2253	465	Extension for reply within third month	
		1254	1,450	2254	725	Extension for reply within fourth month	
		1255	1,970	2255	985	Extension for reply within fifth month	
		1401	320	2401	160	Notice of Appeal	
		1402	320	2402	160	Filing a brief in support of an appeal	
		1403	280	2403	140	Request for oral hearing	
		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
		1452	110	2452	55	Petition to revive - unavoidable	
		1453	1,300	2453	650	Petition to revive - unintentional	
		1501	1,300	2501	650	Utility issue fee (or reissue)	
		1502	470	2502	235	Design issue fee	
		1503	630	2503	315	Plant issue fee	
		1460	130	1460	130	Petitions to the Commissioner	
		1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
		1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
		8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
		1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
		1810	750	2810	375	For each additional invention to be examined (37CFR 1.129(b))	
		1801	750	2801	375	Request for Continued Examination (RCE)	
		1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)  
180.00

## SUBMITTED BY

Name (Print/Type) Peter McGee

Registration No. (Attorney/Agent)

35,947

## Complete (if applicable)

Telephone (202) 828-2211

Signature

Date

May 14, 2003



Docket No.: I8363.0002/P002  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Yoav Eichen

Application No.: 09/674,090

Group Art Unit: 1637

Filed: March 1, 2001

Examiner: Jeffrey Siew

For: DETECTION OF A TARGET IN A  
SAMPLE BY MEASURING  
CONDUCTANCE OF A SUBSTANCE  
GROWN FROM NUCLEATION  
CENTER-FORMING MOIETIES

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Rejection or Notice of Allowance.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an

Application No.: 09/674,090

Docket No.: I8363.0002/P002

admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

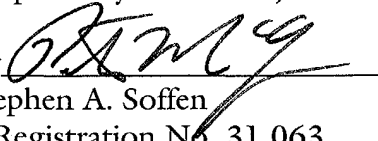
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Credit Card in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). Credit Card Payment Form SB-2038, with a signature from an authorized cardholder, is enclosed. The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. I8363.0002/P002.

Dated: May 14, 2003

Respectfully submitted,

By

  
Stephen A. Soffen

Registration No. 31,063

Peter McGee

Registration No.: 35,947

DICKSTEIN SHAPIRO MORIN &  
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Attorneys for Applicant



PTO/SB/08A (10-01)  
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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/674,090
				Filing Date	March 1, 2001
				First Named Inventor	Yoav Eichen
				Art Unit	1637
				Examiner Name	Jeffrey Siew
Sheet	1	of	3	Attorney Docket Number	18363.0002/P002

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		3,833,894	9-1974	Aviram et al.	
		5,063,417	11-1991	Hopfield	
		5,089,545	2-1992	Pol	
		5,561,071	10-1996	Hollenberg et al.	
		5,707,845	1-1998	Ueyama et al.	
		5,946,550	8-1999	Papadimitrakopoulos	
		5,445,934	8-1995	Fodor et al.	
		5,653,939	8-1997	Hollis et al.	
		5,739,308	4-1998	Kandimalla et al.	
		5,770,369	6-1998	Meade et al.	
		5,787,032	7-1998	Heller et al.	
		5,824,473	10-1998	Meade et al.	
		5,837,546	11-1998	Allen et al.	
		5,858,659	1-1999	Sapolsky et al.	
		5,874,046	2-1999	Megerle	
		5,876,976	3-1999	Richards, et al.	
		5,891,630	4-1999	Eggers et al.	
		6,060,023	4-2001	Maracas	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 98/53841	12-1998	WIPO		
		WO 99/04440	1-1999	WIPO		
		WO 99/29711	6-1999	WIPO		
		WO 99/35256	7-1999	WIPO		
		WO 99/36573	7-1999	WIPO		

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Sheet	2	of	3		

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		Number-Kind Code <sup>2</sup> (if known)			
		6,051,380	4-2000	Sosnowski et al.	
		6,071,699	6-2000	Meade et al.	
		6,093,370	7-2000	Yasuda et al.	
		6,210,880	4-2001	Lyamichev	
		6,399,303	6-2002	Connolly	
		US2002/0182608 A1	12-2002	Connolly	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
		WO 93/25003	12/1993	WIPO	
		WO 94/05045	3/1994	WIPO	

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Chen et al., "Synthesis from DNA of a Molecule With the Connectivity of a Cube," <u>Nature</u> , 350:631-633 (1991)	
		Mirkin et al., "A DNA-Based Method of Rationally Assembling Nanoparticles Into Macroscopic Materials", <u>Nature</u> , 382:607-609 (1996)	
		Alivisatos et al., "Organization of 'Nanocrystal Molecules' Using DNA," <u>Nature</u> , 382:609-11 (1996)	
		Braun et al., "DNA-Templated Assembly and Electrode Attachment of a Conducting Silver Wire," <u>Nature</u> , 391:775-778 (1998)	
		J. L. Coffey et al., "Dictation of the Shape of Mesoscale Semiconductor Nanoparticle Assemblies by Plasmid DNA", <u>Appl. Phys. Lett.</u> 69 (25), December 16, 1996, pp.3851-3853	
		D. B. Hall, et al., "Oxidative DNA Damage Through Long-Range Electron Transfer", <u>NATURE</u> , Vol. 382, August 22, 1996, pp. 731-735	
		S.N. Size, "Physics of Semiconductor Devices, 2nd Ed., pp. 349, 490-495	
		Klein et al., "An Approach to Electrical Studies of Single Nanocrystals," <u>Appl. Phys. Lett.</u> , 68 (18):2574-2576 (1996)	
		Sato et al., "Single Electron Transistor Using A Molecularly Linked Gold Colloidal Particle Chain," <u>J. Appl. Phys.</u> 82 (2) : 696-701 (1997)	



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				<b>Examiner Name</b>	Jeffrey Siew
				<b>Attorney Docket Number</b>	18363.0002/P002
<b>Sheet</b>	<b>3</b>	<b>of</b>	<b>3</b>		

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>		
<b>Examiner Initials*</b>	<b>Cite No.<sup>1</sup></b>	<b>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.</b>
		Grabner et al., "Kinetic Control of Interparticle Spacing in Au Colloid-Based Surfaces: Rational Nanometer-Scale Architecture," J. Am. Chem. Soc., 118:1148-1153 (1996)
		Ackley, et al., "DNA Technology for Optoelectronics", IEEE, April 1998

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